

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 2005/000093

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B21D 39/06, F16L 19/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B21D, F16L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4154464 A (W.E. STARY), 15 May 1979 (15.05.1979) --	1
X	DATABASE WPI Week 200115 Derwent Publications Ltd, London, GB; Class P52, AN 2001-145510 & RU 2159689 C2 (REPAIR & MECH WKS CO LTD ET AL), 27 November 2000 (2000-11-27) abstract --	1
A	US 3730567 A (F.R. WEBSTER), 1 May 1973 (01.05.1973) --	1

☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

22 June 2005

Date of mailing of the international search report

28-06-2005

Name and mailing address of the ISA/

Swedish Patent Office

Box 5055, S-102 42 STOCKHOLM

Facsimile No. +46 8 666 02 86

Authorized officer

Christer Wendenius / MRO

Telephone No. +46 8 782 25 00

INTERNATIONAL SEARCH REPORT

International application No.

PCT/NO 2005/000093

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0570178 A1 (COOPER INDUSTRIES INC.), 18 November 1993 (18.11.1993) --	2-6
A	AU 628743 B (DOWELL AUSTRALIA LIMITED), 17 Sept 1992 (17.09.1992) --	2-6
A	US 4934038 A (M.L. CAUDILL), 19 June 1990 (19.06.1990) --	2-6
A	US 6517126 B1 (I.H. PETERSON ET AL), 11 February 2003 (11.02.2003) --	3
A	GB 841869 A (THOS. P. HEADLAND LIMITED), 20 July 1960 (20.07.1960) -- -----	6

INTERNATIONAL SEARCH REPORT
Information on patent family members

28/05/2005

International application No.

PCT/NO 2005/000093

US	4154464	A	15/05/1979	NONE		
US	3730567	A	01/05/1973	FR	2145069 A	16/02/1973
				CA	947786 A	21/05/1974
				NL	179159 B,C	17/02/1986
				NL	7109467 A	11/01/1972
EP	0570178	A1	18/11/1993	DE	69309766 D,T	31/07/1997
				SG	73956 A	18/07/2000
				US	5335729 A	09/08/1994
AU	628743	B	17/09/1992	AU	7737391 A	02/01/1992
US	4934038	A	19/06/1990	FR	2652015 A,B	22/03/1991
				GB	2236066 A,B	27/03/1991
				GB	9015881 D	00/00/0000
				JP	2753125 B	18/05/1998
				JP	3106523 A	07/05/1991
US	6517126	B1	11/02/2003	AU	8909501 A	02/04/2002
				BR	0114006 A	10/02/2004
				CA	2421526 A	28/03/2002
				CN	1466668 A,T	07/01/2004
				DE	60107589 D	00/00/0000
				EP	1322883 A,B	02/07/2003
				SE	1322883 T3	
				JP	2004509304 T	25/03/2004
				MX	PA03002378 A	30/06/2003
				WO	0225161 A	28/03/2002
GB	841869	A	20/07/1960	NONE		